



**Federal Aviation  
Administration**

**15th Annual FAA Commercial Space Transportation Conference**

15–16 February 2012

Walter E. Washington Convention Center  
Washington, DC

**Co-sponsored by AIAA**

**PRELIMINARY PROGRAM**

**As of 12/14/11**

**Wednesday, 15 February 2012**

0900 hrs

**Room 145**

**Opening Remarks**

**Speaker:** George C. Nield, Associate Administrator for Commercial Space Transportation  
Federal Aviation Administration (FAA)

0915 hrs

**Room 145**

**Keynote Speaker**

**Speaker:** William Gerstenmaier, Associate Administrator for Human Exploration and Operations,  
National Aeronautics and Space Administration (NASA) (invited)

1000 hrs

**Foyer**

**Networking Coffee Break**

1030 hrs **Concurrent Sessions**

## Room 146

### The Tipping Point

This panel will investigate the origins, applicability, target customers and supporting actions of "the tipping point" as applied to the emerging commercial space transportation industry.

**Moderator:** Ken Davidian, Director of Research, FAA Office of Commercial Space Transportation

#### Panelists:

- Zoe Szajnfarder, Assistant Professor of Engineering Management and Systems Engineering, George Washington University, Washington, DC
- Diane Dimeff, Executive Director, eSpace: The Center for Space Entrepreneurship, Boulder, CO

## Room 145

### Ranges of the Future

The canvas of the commercial space transportation industry is changing as a result of the retirement of the space shuttle and the charge for commercial industry to pick up these traditionally government missions as well as the curiosity and excitement of the public that fuel the space tourism industry. Ranges in the future will need to account for the needs of this changing industry. This panel will seek to define some of the needs of this changing industry and range capabilities from the perspective of both the government and industry stake holders.

**Moderator:** Pamela Underwood, Aerospace Engineer, FAA Office of Commercial Space Transportation, Patrick AFB, FL

#### Panelists:

Scott Henderson, Director of Mission Assurance, Space Exploration Technologies Corp. (SpaceX), Cape Canaveral AFS, FL

John Kelley, Launch Services Program Executive, NASA, Washington, DC

Les Kovacs, Orbital Sciences Corporation, Wallops Flight Facility, VA (invited)

Michael Moses, Vice President of Operations, Virgin Galactic, Pasadena, CA

Col. Rob Uemura, Chief, Current Space Operations (AF/A3Z-SO), Washington, DC

1200 hrs

## Room 146

### Luncheon

#### Sponsored by The Boeing Company

**Featured Speaker:** The Honorable Gregory L. Schulte, Deputy Assistant Secretary of Defense for Space Policy (invited)

1330 hrs

### Break

1400 hrs

## **Concurrent Sessions**

### **Room 145**

#### **Minority Space Entrepreneurship**

Minority space entrepreneurs discuss their companies' space-related endeavors and their contributions to the overall success of U.S. commercial space transportation. Panel members will provide their views and insights on how minority entrepreneurs in the U.S. can leverage their skills and capabilities to become a greater part of what is expected to become a trillion dollar industry.

**Moderator:** Kelvin Coleman Senior Advisor for Space Transportation Development, FAA Office of Commercial Space Transportation

**Co-Moderator:** Ken Harvey, President and CEO, JAKA Consulting Group, Reston, VA

#### **Panelists:**

Honorable Chaka Fattah (D- PA), U.S. House of Representatives, Washington, DC (invited)

Jayfus Doswell, President and CEO, JUXTOPIA Group, Baltimore, MD

Joseph Fuller, President and CEO, Futron Corporation, Bethesda, MD

Allen Herbert, President and CEO, Phezu Space LLC, Baltimore, MD

### **Room 146**

#### **Understanding the Space Environment: What the Launch Operator Should Know About Space Weather**

Space weather—the charged particles and radiation from the Sun and other sources—affects us all, even on the ground. As we approach solar maximum, we will see more frequent impacts on navigation, communication, and spacecraft in orbit due to increased solar storms and disturbances in the ionosphere. Here we take a look at the types of space weather events that can occur and learn what tools are available to the launch operator to determine the state of the space environment.

**Moderator:** Karen Shelton-Mur, Aerospace Engineer/Natural Environments, FAA Office of Commercial Space Transportation

#### **Panelists:**

Joe Mazur, Associate Director, The Aerospace Corporation, Washington, DC

Bob Rutledge, Chief, Space Weather Forecast Office, NOAA/SWPC, Boulder, CO

Ron Turner, Fellow, Analytic Services Incorporated, Arlington, VA

1530 hrs

### **Foyer**

#### **Networking Coffee Break**

1600 hrs

## **Concurrent Sessions**

### **Room 146**

#### **Training for Safety**

How does training of commercial launch crews and support personnel enhance safety? Discussion of initial training, continuing training, and proficiency exercises. What certifications are desirable?

**Moderator:** B.K. Lunde, Training Instruction Specialist, FAA Office of Commercial Space Transportation

#### **Panelists:**

Dan Dubbs, Director, Mission Assurance, Energia Logistics Inc., Long Beach, CA

Neil Milburn, Vice President of Program Management, Armadillo Aerospace, Heath, TX

Julia Tizard, Operations Manager, Virgin Galactic, Mojave, CA

Linda Tyree, Leader, System Safety & Systems Management, United Launch Alliance, Centennial, CO

### **Room 145**

#### **Integration of Public and On-Board Safety**

Industry and government representatives will discuss safety assessments and risk-acceptability decisions made during the design, certification, and operation of launch and reentry vehicles for human spaceflight. The focus will be on how past experiences can help facilitate a robust commercial human spaceflight industry.

**Moderator:** Paul Wilde, Office of Commercial Space Transportation, Houston, TX

**Panelists:** TBD

1730 hrs

### **Room 147B**

#### **Welcome Reception**

## Thursday, 16 February 2012

0800 hrs

### Room 145

#### Opening Remarks

**Speaker:** The Honorable Ray LaHood, Secretary, U.S. Department of Transportation (invited)

0815 hrs

### Room 145

#### Featured Speaker

**Speaker:** General William L. Shelton, USAF, Commander, Air Force Space Command, Peterson Air Force Base, CO

0900 hrs

### Room 145

#### A Step Farther Out

This session will report on the latest developments in potential future drivers of demand for commercial launch services, such as space solar power satellites, active orbital debris removal, orbital tourism, and on orbit propellant storage and transfer.

**Moderator:** Nickolas Demidovich, Project Manager, Emerging Technologies, FAA Office of Commercial Space Transportation

#### Panelists:

John C. Mankins, President, Artemis Innovation Management Solutions, LLC, Santa Maria, CA

Jerome Pearson, President, Star Technologies Inc., Myrtle Beach, SC

Ajay Kothari, President and CEO, Astrox Corporation, College Park, MD

1030 hrs

### Foyer

#### Networking Coffee Break

1100 hrs

### Room 145

#### Crew and Cargo to the ISS

Hear an update on the latest developments in the critical Commercial Crew Development (CCDev) program, and plans for expanding commercial launch services to the International Space Station to include manned spaceflight.

**Moderator:** Bob Dickman, Executive Director, American Institute of Aeronautics and Astronautics (AIAA), Reston, VA

**Panelists:** TBD

1230 hrs

### Room 146

#### Luncheon

**Featured Speaker:** George Whitesides, President and CEO, Virgin Galactic, Pasadena, CA (invited)

1400 hrs

**Break**

1415 hrs

**Room 145**

**Spaceport States Leadership**

The number of commercial launch sites is steadily growing, as forward-thinking states promote the development of these facilities. This panel will feature leading representatives of “spaceport states,” describing the initiatives they have undertaken, and the anticipated results.

**Moderator:** John Logsdon, Professor Emeritus, George Washington University, Washington, DC

**Panelists:**

Stephen McKeever, Secretary of Science and Technology, Oklahoma

Other invitees: Representatives from Virginia, Florida, Texas, New Mexico, and Alaska

1545 hrs

**Room 145**

**Legislative Trends in Commercial Space**

Lawmakers play a key role in the commercial space enterprise. Government programs and budgetary issues are major market determiners, and liability legislation, taxes, and export controls all affect the bottom line of the space business. Panelists will discuss the latest legislative developments and trends.

**Moderator:** Greg Rasnake, Director of External Affairs, FAA Office of Commercial Space Transportation,

**Panelists:** TBD

1715 hrs

**Room 145**

**Closing Remarks**

**Speaker:** Dr. Nield